

5100FZ Multi-Conductor - Circuit Integrity in a Conduit



For more Information
please call

1-800-Belden1



Description:

14 AWG stranded (7x22) bare copper conductors, ceramifiable silicone insulation, Beldfoil® shield (100% coverage), drain wire, FRPE (low smoke non-halogen) jacket. Sequential footage marking every two feet.

Usage (Overall)

Suitable Applications: Circuit Integrity, CIC, EVAC Systems, Emergency Systems, 2 hr Rated Cables, Survivability Cables

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
2	14	7x22	BC - Bare Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
Silicone Rubber	.035

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire	Conductor Material
16	7x24	TC	Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
FRPE - Flame Retardant Polyethylene	.056

Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red

Overall Nominal Diameter: 0.410 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +105°C

UL Temperature Rating: 105°C

Bulk Cable Weight: 88 lbs/1000 ft.

Max. Recommended Pulling Tension: 136 lbs.

Min. Bend Radius (Install)/Minor Axis: 4.100 in.

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	FPLR, Electrical Circuit Protective Systems (FHIT #30)
NEC Articles:	760
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	11/14/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	UL1666 Riser, UL2196 Two Hour Circuit Integrity (in conduit only)
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

26

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

Max. Operating Voltage - UL:

Voltage

300 V RMS

Notes (Overall)

Notes: UL 2196 (2 Hour Flame Rated) - Only when installed in conduit per FHIT #30 of the UL fire resistance directory.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5100FZ 0021000	1,000 FT	97.000 LB	RED	C	2 #14 FS SIL FRNHPO

Notes:

C = CRATE REEL PUT-UP.

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